

The IX-th International Conference of Differential Geometry and Dynamical Systems

8-11 October 2015, University Politehnica of Bucharest - Romania

Effective Conference program * [12.10.2015]

THURSDAY, 8 October 2015 * First Conference Day

Registration: h. 9:00-13:30 * Registration desk: Department Mathematics-Informatics * Room R-412 / Rectorate Building

THURSDAY, 8 October 2015 (afternoon session)

Location: New Aula of University Politehnica of Bucharest * (in the Conference Center (CC), near the Rectorate Building)

		14:00-15:10
	I. Opening ceremony	10'
	II. Celebration of the 75-th anniversary of Prof. Emeritus Dr. Constantin Udriste * Laudatio:	
	* Acad. Dorel Zugrăvescu	20'
	* Prof. dr. Massimiliano Ferrara	20'
	III. The 20-th Anniversary of the Balkan Society of Geometers:	
	* Prof.dr. Vladimir Balan and Prof.dr. Gabriel Pripoe (BSG Vice-Presidents)	20'
<i>Welcome party (banquet) * 15:10-17:00</i>		
	Chair: Vladimir Rovenski	17:00-19:30
1.	A dynamic game on green supply chain management. Advances on optimal control and its applications [Massimiliano Ferrara]	25' +5'
2.	3D face analysis from digital camera images [Vic Patrangenaru, David Yao and Vladimir Balan]	25' +5'
3.	Topological and differential invariants of singularities of 3-webs [Mikhail Malakhaltsev]	25' +5'
4.	Integral formulae for codimension-one foliated Finsler manifolds [Vladimir Rovenski and Pawel Walczak]	25' +5'
5.	Conformality in semi-Riemannian context [Cornelia-Livia Bejan and Semsı Elan]	25' +5'

FRIDAY, 9 October 2015 (morning session) - room 22 (CC)

	Chairman: Piotr Kopacz	9:00-11:00
1.	A group arising from fractional calculus and discrete delta potential [Akira Asada]	25' +5'
2.	MKdV equations related to the $D_4^{(1)}$ and $D_4^{(2)}$ algebras [Vladimir Gerdjikov]	25' +5'
3.	Measures of non-compactness and their applications in FK-spaces and fixed point theory [Eberhard Malkowsky]	25' +5'
4.	A class of Lorentzian rotational hypersurfaces in Minkowski 4-spaces and their Gauss maps [Tugce Colak]	25' +5'

COFFEE BREAK - 30'

	Chairman: Mikhail Malakhaltsev	11:30-13:30
5.	On Randers geodesic-based computational model and river-type perturbation with application to navigation [Piotr Kopacz]	25' +5'
6.	Finslerian mathematical models in Physics [Francisc Klepp]	25' +5'
7.	K -groups and their isomorphisms [Adrian Constantinescu, Constantin Udriște and Steluța Pricopie]	25' +5'
8.	Structural properties of multidimensional continuous-discrete systems in the geometric approach [Tiberiu Vasilache, Valeriu Prepelîță and Mona Doroftei]	25' +5'

LUNCH BREAK

FRIDAY, 9 October 2015 (afternoon session I)

	Chair: Tugce Colak	Section A- room 22 (CC)	15:00-17:00
1.	Riemann solitons on some classes of Riemannian manifolds [Iulia Elena Hiriță]		15' +5'
2.	On a family of curves [Gabriel-Teodor Priporae]		15' +5'
3.	On some variations related to jerk motions [Marcela Popescu and Paul Popescu]		15' +5'
4.	About the Hamilton-Poisson structures of the Kermack-McKendrick SIR model [Florian Munteanu]		15' +5'
5.	Homothetical and translation hypersurfaces with constant curvature in the isotropic space [Muhittin Evren Aydin and Alper Osman Ogrenmis]		15' +5'
6.	Spherical product surfaces in Galilean 3-space [Alper Osman Ogrenmis and Muhittin Evren Aydin]		15' +5'

	Chair: Massimiliano Ferrara	Section B - room 23 (CC)	15:00-16:40
1.	Inverse problems and approximation related to the Markov moment problem [Octav Olteanu]		15' +5'
2.	The hyperbolic median and its applications [Anastasios Zachos]		15' +5'
3.	Geometry associated to relevant PDEs [Teodor Țurcanu and Constantin Udriște]		15' +5'
4.	Biot-Savart-Laplace operator in 4-space [Nona Crăciun, Adriana Calotă, Constantin Udriște and Ionel Țevy]		15' +5'
5.	Motion of charged particle in magnetic field created by centered pairs of coplanar rectilinear electrical circuits [Adriana Calotă and Nona Crăciun]		15' +5'
6.	Applicability of Geometry to reliability models [Zaher Abdul Haddi Hassan and Constantin Udriște]		15' +5'

	Chair: Vladimir Gerdjikov	Section C- room 21 (CC)	15:00-17:00
1.	Space-time quantile surfaces of non-stationary random fields: a comparison study [Dana Sylvan, Constantin Târcolea and Adrian Paris]		15' +5'
2.	Windows application for visualization of potential surfaces [Vesna Velickovic, Zeynep Odemis Ozgur and Faruk Ozgur]		15' +5'
3.	Non-linear Finsler-Lagrange dynamics of the compressed Langmuir monolayer leading to distributions of relaxation times [Vladimir Balan, Galina Grushevskaya, Nina Krylova and Mircea Neagu]		15' +5'
4.	A mathematical model for the general ridged waveguide for electromagnetic field [Valerică Costin, Romeo Bercia and Dorel Homentcovschi]		15' +5'
5.	Food-chain dynamics in a mangrove ecosystem with harvesting [Cristina Bercia and Romeo Bercia]		15' +5'
6.	Submanifolds in metallic Riemannian manifold [Cristina-Elena Hrețcanu and Mircea Crâșmăreanu]		15' +5'

FRIDAY, 9 October 2015 (afternoon session II)

	Chair: Muhittin Evren Aydin	Section A - room 22 (CC)	17:20-18:50
7.	Higher order nonholonomic constraints [Paul Popescu and Cristian Ida]		25' +5'
8.	New aspects of Ionescu-Weitzenbock's inequality [Emil Stoica, Nicușor Minculete and Cătălin Barbu]		25' +5'
9.	On a Lichnerowicz type cohomology attached to a function [Ida Cristian]		25' +5'
	Chair: Gabriel-Teodor Pripoe	Section B- room 23 (CC)	17:20-19:00
7.	A special relativistic approach of non equilibrium thermodynamic with internal variables [Francesco Farsaci and Patrizia Rogolino]		10' +5'
8.	Genesis of heat [Constantin Udriște, Dorel Zugrăvescu and Florin Munteanu]		10' +5'
9.	Needle variation techniques for multitime maximum principle [Constantin Udriște and Ionel Țevy]		10' +5'
10.	Multitime nonlinear Schrodinger PDE [Cristian Ghiu, Lavinia Laura Petrescu and Constantin Udriște]		10' +5'
11.	Multitime recurrences of Samuelson-Hicks type [Cristian Ghiu, Constantin Udriște and Raluca Tuligă]		15' +5'
12.	New results in nonholonomic optimization [Constantin Udriște, Ionel Țevy, Oltin Dogaru and Mădălina Constantinescu]		15' +5'
	Chair: Nina Krylova	Section C- room 32 (CC)	17:20-18:40
7.	Multitime nonlinear evolutions and soliton solutions (outline of the PhD Thesis) [Lavinia Laura Petrescu]		25' +5'
8.	On holomorphic jets bundle $J(2,0)(M)$ with Randers metric [Zaluțchi Violeta]		15' +5'
9.	Presentation of "Treatise on Differential Calculus and Integral Calculus for mathematicians, physicists, chemists and engineers in ten volumes", [Irina Meghea]		25' +5'
General Assembly of the Balkan Society of Geometers [for the BSG members * room of Section C]			19:10 (20')

SATURDAY session, 10 October 2015 (morning session) * Room BN-s05

Important note. In parallel, it will take place "The 10-th Anniversary of the Faculty of Applied Sciences"
*** Senate Room in the Rectorate Building * h. 10:00-12:00 ***

	Chairman: Eberhard Malkowsky	9:00-10:20
1.	Jet prolongations of the projectable characteristic vector fields of a commutative and characteristic deformation algebra [Valentin Gabriel Cristea]	15' +5'
2.	Convex mappings between Riemannian manifolds [Vasile Arsinte and Andreea Bejenaru]	25' +5'
3.	Contact structures on the indicatrix of a complex Finsler space [Elena Popovici and Nicoleta Aldea]	25' +5'
Poster session: 8:30-11:50		
P1.	An anti self dual $SU(3)$ gauge theory on a six dimensional manifolds [Cenap Ozel, Ibrahim Sener, Hishamuddin Zauniddin and Adem Kilicman]	***
P2.	Symmetries of second order differential equations on Lie algebroids [Liviu Popescu]	***
P3.	Transfer matrix scattering theory for optimization of plasmonic nanostructured organic solar cells [Carmen Breazu and Daniela Dragoman]	***
P4.	Semigroup Theory applied to a differential equation considered by Datko [Sânziana Caraman]	***
P5.	The Dirac equation in parabolic cylindrical coordinates and possible effects of the spinor structures in quantum physics [Elena Ovsyuk, Anastasia Red'ko, Vladimir Balan and Viktor Red'kov]	***
P6.	Duality issues for the rational multiparametric variational problem on manifolds based on geodesic quasi-involutions [Ștefan Mititelu and Vladimir Balan]	***
Conference Closing Ceremony [10:30-10:50]		

